

Green Power Conference
Denver August 7 & 8, 2000

The Canadian Environmental Choice Program

Green Power Criteria



John Polak

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TerraChoice
Environmental Services Inc.

Environment Canada

TerraChoice Environmental Services Inc.

- Who Are We Anyway? -

- Private Canadian Company
- Founded in 1995 to Manage Environment Canada's Environmental Choice Program
- 1995 - 2000 - Diversification

**“Helping Turn Environmental Investment
into Market Advantage”**

Faster, better, cheaper...

CO₂

CFCs

EMS

Market Deregulation

VOC

Renewable

GHGs

methane

\$

PCB

Hg

Multiple concerns in an evolving market

A Market Full of Claims & Labels



100% Natural

Ozone-friendly

**Solar
Powered**

Green

Sustainable

Nature Friendly

Organic

VOC Free

Pesticide

Free



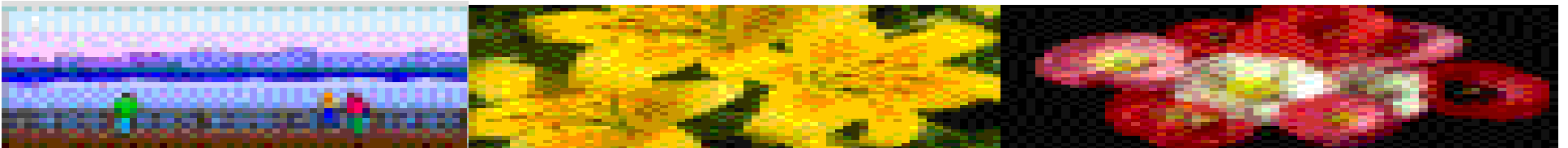
Purpose of Environmental Labelling

A high jumper in mid-air, performing a Fosbury Flop over a bar. The athlete is wearing a white singlet with blue and green patterns, red shorts with white stripes, and white socks. The background is a blurred stadium setting.

- Reward Environmental Investment
- Lead to Market Advantage
- Use Market Forces for Behaviour Change
- Result is Environmental Benefits

Policy Instruments and Options

- Regulatory
- Economic
- Social
- Market-Based



Purpose & History of ECP

- 1988 Environment Canada
“encourage demand for and supply of products and services which are less stressful on the environment”
- Canadian Environmental Protection Act
- Life Cycle Based
- Third Party Verification
- TerraChoice in 1995



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Current Status of ECP

- Criteria for Over 100 Product Categories
- Over 230 Customers in Canada & the USA
- Over 2500 Products Certified
- In Electricity Sector Since late 1996



Renewable Low Impact Electricity

History

- 1996 - Interim criteria
- Market Penetration
 - 39 sites certified
 - BC, Alta, Ont, Que, Nfld
- 2000 - Interim criteria updated
- Renewable: replenished via natural processes or sustainable management practices



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Renewable Low Impact Electricity - cont'd

Current Status

- Late 1998 - Formal Criteria Development Process Started
- Background Paper Prepared
- Multi-stakeholder Review Committee Struck
- Research, Consultations, Meetings
- Late 2000 - National & International Notification for Public Review & Comment
- Expect Final Criteria by Early 2001



Certification & Compliance

- Certify Facilities - Type I & II
- Certify Electricity Product Bundled with Env'l Benefits
- Compliance with Safety & Performance Standards & Req'ts of Applicable Gov't Acts, Bylaws and Regulations



Environmental Criteria

- General Requirements
- Wind
- Solar
- Hydro
- Biomass
- Biogas



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Environmental Criteria

- General Requirements -

- Evidence of Consultation
- Issues of Concern Addressed
- Facility is Non-Temporary
- Protection of Endangered or Threatened Species
- Limits to Use of Non-Renewable Fuels
- Alternative Use



Environmental Criteria

- General Requirements -

Continued

- Marketing Requirement 50% of Type II (After Jan 1, 1991)
- Transfer of Ownership of Environmental Benefits
- ECP Certified Product Contains Only Certified Electricity - However It Can be Bundled and Sold as “X”% Certified



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Environmental Criteria

- Wind -

- Facility Structures not Harmful to Birds
- Not Located in Areas with Concentrations of Endangered Bird Species



Environmental Criteria

- Solar -

- All Solid Waste that Contains Measurable Levels of Cadmium, Including in Disposal of Equipment, is Properly Disposed of or Recycled



Environmental Criteria

- Hydro -

- Regulatory Licenses - Fish & Water
- Policies on Habitat Management
- Waterway Coordination
- Water Out = Water In over 48 Hrs
- Reduced Water Flows Not Detrimental
- Flows to Support Downstream Species
- Water Quality Water Temperatures
- Fish Passage in Case of Structures
- Measures to Minimize Fish Mortality



Environmental Criteria

- Biomass -

- Load Point Limits for CO, PM, NO_x, SO_x
- TOMA
- Management System and Sustainable Harvesting in Woodlands or Agricultural Operations
- Wood Waste Must be Untreated



Environmental Criteria

- Biogas -

- Load Point Limits for CO, PM, SOx, Smog Forming Agents
- TOMA
- For Landfill Sites - Leachate Management Program



Verification

- Verification Protocols & Checklists
- Site Visit and Audit
- Marketing Audit (Sales Cannot Exceed Purchases)
- Costs for Audit at Hourly Rate
- Spot Checks at Expense of TerraChoice



Licensing

Available to:

- Generators
- Marketers
- Users

Annual Fees:

- Function of Sales from Facility
 - Minimum \$600 per Year
 - Maximum \$10,000 per Year



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Summary

- Many Definitions of Green
- Credible Certification Requires:
 - Science Based Criteria which Also Reflect Social Values
 - 3rd Party Verification
- ECP Certification Available in Canada and the USA

